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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/774,127	02/06/2004	James M. Brugger	53951-119	8396
21890 PROSKAUER	7590 04/27/2007		EXAMINER	
PATENT DEP	ARTMENT		KIM, SUN U	
1585 BROADWAY NEW YORK, NY 10036-8299			ART UNIT	PAPER NUMBER
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		04/27/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)
	10/774,127	BRUGGER ET AL.
Office Action Summary	Examiner	Art Unit
	John Kim	1723
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet	with the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING [2] - Extensions of time may be available under the provisions of 37 CFR 1, after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN .136(a). In no event, however, may d will apply and will expire SIX (6) M te, cause the application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).
Status		
1) ☐ Responsive to communication(s) filed on 12. 2a) ☐ This action is FINAL . 2b) ☐ This action for allowed the condition for all the conditions for all the condi	is action is non-final.	
closed in accordance with the practice under	Ex parte Quayle, 1935 C	.D. 11, 453 O.G. 213.
Disposition of Claims		
4) ⊠ Claim(s) 1,2,4,6,7,9 and 21-27 is/are pending 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1,2,4,6,7,9 and 21-27 is/are rejected 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/	awn from consideration.	
Application Papers		
9) ☐ The specification is objected to by the Examin 10) ☑ The drawing(s) filed on 12 January 2007 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the E	e: a)⊠ accepted or b)□ e drawing(s) be held in abey ction is required if the drawir	rance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		·
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat* * See the attached detailed Office action for a list.	nts have been received. Its have been received in ority documents have been received in ority documents have been received.	Application No en received in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	Paper N	w Summary (PTO-413) o(s)/Mail Date f Informal Patent Application (PTO-152)

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1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is

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eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e)

has been timely paid, the finality of the previous Office action has been withdrawn pursuant to

37 CFR 1.114. Applicant's submission filed on 1/12/07 and 4/5/07 has been entered.

2. Claims 1 and 22 are objected to because of the following informalities: "the filter media" on line 8 of claims 1 and 22 should be corrected to "a filter media". "a filter media" on line 12 of claims 1 and 22 should be corrected to "the filter media". Appropriate correction is required.

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 6 and 25 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 6 and 25 are indefinite for failing to particularly point out whether a second cap is different and separate structure from an inlet cap. For examination purposes, a second cap is deemed same as an inlet cap.
- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any

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evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. Claims 1-2, 4, 6-7, 9 and 21-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 4,784,768 (hereinafter referred to as Mathieu). Mathieu teaches a filter apparatus comprising a cylindrical housing (1) having removably attached inlet and outlet end caps (2, 2a) wherein each end cap has two ports (3 or 3a, 12) located radially adjacent to each other for entry or removal of medium or fluid; capillary fiber bundle (4, 5) separates filtrate chamber (10) from the internal lumens of capillary fiber bundle (4, 5) e.g. blood portion of the housing; and an outlet (11) is connected to the filtrate chamber (10) wherein a gap (9) between filter media (4, 5) and the outlet cap (2a) forms a headspace and the outlet cap (2a) has an outlet port (3a) and additional port (12) that are open to the headspace and a gap (8) between filter media (4, 5) and the inlet cap (2) forms a headspace and the inlet cap (2) has an inlet port (3) and additional port (12) that are open to the headspace (see figure 1-3; col. 5, line 63 - col. 7, line 43). Mathieu further teaches that gas is supplied to the membranes via hydrophobic membrane (13, 13a) inherently through an additional port to liquid supply (see figure 1; col. 5, lines 11-20; 47-53). Such a gas supply through an additional port (12) to liquid supply or liquid extraction in the liquid inlet port (3) or liquid outlet port (3a) will be mixed in the headspace by sheer gap provided between the filter media and the cap. Claims 1, 21 and 22 essentially differ from the filter apparatus of Mathieu in reciting that both outlet port and the infusion port being connected to housing to be open directly to headspace (claim 1), a dilution inlet directly connected to, and

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terminating at, the blood outlet headspace (claim 21) and both the outlet port and the infusion port being connected to the housing to terminate at the headspace (claim 22). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the filter apparatus of Mathieu to provide direct connection of the dilution inlet to the outlet headspace or terminating at the outlet headspace in addition to outlet port for mixing of gas with liquid to gasify the liquid with oxygen as suggested by Mathieu (see col. 5, lines 11-20), since it has been held that rearranging parts of an invention involves only routine skill in the art. In re-Japikse, 86 USPQ 70. Use of the ports as an inlet and/or outlet for different fluids are an intended use of the apparatus and these are not given patentable weight to the structural limitation without the positive recitation of the specific fluid source e.g. blood, dilution fluid, infusion fluid, etc. connected to specific ports.

Regarding claims 2 and 23, Mathieu teaches an infusion port (12) adjacent the outlet port (3a) (see Fig. 1).

Regarding claims 4 and 24, Mathieu teaches that the end caps (2, 2a) are fitted in sealing manner to a housing body (1) which are inherently removably attached to the end caps (see Fig. 1; col. 5, lines 64-67; col. 7, lines 65-66).

Regarding claims 6 and 25, Mathieu teaches an inlet cap (2) e.g. second cap having an inlet port (3) (see Fig. 1).

Regarding claims 7 and 26, Mathieu teaches a second port (12) adapted to receive dilution fluid radially adjacent the inlet port (3) (see Fig. 1).

Regarding claims 9 and 27, Mathieu teaches a cylindrical housing (1) (see Fig. 1; col. 5, lines 63-66).

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7. Applicant's arguments with respect to claims 1-2, 4, 6-7, 9 and 21-27 have been

considered but are moot in view of the new ground(s) of rejection.

8. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to John Kim whose telephone number is 571-272-1142. The

examiner can normally be reached on Monday-Friday 7 a.m. - 3:30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Steven Griffin can be reached on 571-272-1189. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

John Kim

Primary Examiner

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JK 4/23/07